

NEW COMBINATIONS IN *SOLIDAGO SIMPLEX* (COMPOSITAE:  
ASTEREAE)

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ABSTRACT

The following new combinations are made to bring earlier work by Ringius in line with recent nomenclatural observations by others: *Solidago simplex* Kunth ssp. *simplex* var. *nana* (A. Gray) Ringius, *S. simplex* ssp. *simplex* var. *chlorolepis* (Fern.) Ringius, *S. simplex* ssp. *randii* (Porter) Ringius, *S. simplex* ssp. *randii* var. *monticola* (Porter) Ringius, *S. simplex* ssp. *randii* var. *racemosa* (E. Greene) Ringius, *S. simplex* ssp. *randii* var. *gillmanii* (A. Gray) Ringius, *S. simplex* ssp. *randii* var. *ontarioensis* (Ringius) Ringius.

KEY WORDS: *Solidago simplex*, *Solidago glutinosa*, Compositae, Astereae

Nesom (1989) noted that *Solidago glutinosa* Nutt. was a synonym of *S. simplex* Kunth. Cronquist (1947) had treated the complex as *S. glutinosa*, and subsequently as part of *S. spathulata* DC. e.g., Cronquist (1955, 1968). Ringius (1985, 1987a, 1987b) had revised the complex and Ringius & Semple (1987) had presented the cytogeography under the name *S. glutinosa*. The following new combinations in the *S. simplex* complex are made to bring the work of Ringius in line with the most recent data on nomenclature and to make these combinations immediately available to those doing floristic studies. A complete synonymy and full discussion of the taxa will be presented elsewhere.

*Solidago simplex* Kunth, *Nov. Gen.* 103. 1818. TYPE: MÉXICO. Santa Rosa, Sep s.a., *Humboldt & Bonpland s.n.* (HOLOTYPE: P, fiche!)

*Solidago simplex* Kunth ssp. *simplex*.

*Solidago glutinosa* Nutt. ssp. *glutinosa*, Cronq., *Rhodora* 49:76. 1947.

*Solidago spathulata* DC. ssp. *glutinosa* (Nutt.) Keck, *Aliso* 4:104. 1958.

*Solidago simplex* Kunth ssp. *simplex* var. *simplex*.

*Solidago glutinosa* Nutt., Trans. Amer. Phil. Soc., n.s. 7:328. 1841. *Solidago glutinosa* Nutt. ssp. *glutinosa* var. *glutinosa*, Cronq., Rhodora, 49:76. 1947. *Solidago spathulata* DC. ssp. *glutinosa* (Nutt.) Keck, Aliso 4:104. 1958. TYPE: U.S.A. "On the Oregon and Wahlemet rivers," Nuttall s.n. (LECTOTYPE [Ringius, Taxon 35:155. 1987.]: BM!; Isotype: PH!).

*Solidago simplex* Kunth ssp. *simplex* var. *nana* (A. Gray) Ringius, *comb. nov.* BASIONYM: *S. humilis* Pursh var. *nana* A. Gray, *Syn. Fl. N. Amer.* 1, pt. 2:148. 1884. *Solidago purshii* Porter var. *nana* (A. Gray) Farwell, *Amer. Midl. Nat.* 12:72. 1930. *Solidago glutinosa* Nutt. ssp. *glutinosa* var. *nana* (A. Gray) Cronq., Rhodora 49:76. 1947. *Solidago spathulata* DC. var. *nana* (A. Gray) Cronq., *Vasc. Pls. Pacif. Northw.* 5:311. 1955. SYNTYPES: U.S.A. Washington: Mt. Adams, high up, 1882, Howell s.n. (LECTOTYPE [Ringius, Taxon 36:155. 1987.]: GH!). Mt. Adams, Suksdorf s.n. (GH-2!, NY!). Colorado: Parry 18 (GH!). Oregon: 1871, Hall 258 (NY-2!, GH!; all = var. *simplex*).

*Solidago simplex* Kunth ssp. *simplex* var. *chlorolepis* (Fern.) Ringius, *comb. nov.* BASIONYM: *Solidago chlorolepis* Fern., Rhodora 17:3. 1915. *Solidago decumbens* E. Greene var. *chlorolepis* (Fern.) Beaudry, *Nat. Canad.* 91:194. 1964. *Solidago glutinosa* Nutt. var. *chlorolepis* (Fern.) Ringius, Taxon 36:157. 1987. TYPE: CANADA. Quebec: Mt. Albert, gulch north of Lac au Diable, and crevices talus of serpentine, Collins & Fernald 750 (HOLOTYPE: GH!).

*Solidago simplex* Kunth ssp. *randii* (Porter) Ringius, *comb. nov.* BASIONYM: *Solidago virgaurea* L. var. *randii* Porter, Bull. Torrey Bot. Club 20:208. 1893. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq., Rhodora 49:77. 1947. *Solidago spathulata* DC. ssp. *randii* (Porter) Gleason, *Phytologia* 4:25. 1952. SYNTYPES: U.S.A. Maine: Mt. Desert Is., Great Cranberry Is., Spurling Point, 30 Aug 1892, E.L. Rand s.n. (LECTOTYPE [Ringius, Taxon 36:156. 1987.]: NY ex Herb. Columbia Col!; has Porter's hand written label; Isolectotypes: DAO!, NY!); U.S.A. Vermont: "shores of Lake Champlain," Pringle s.n. (GH!, NY-2!, PH!).

*Solidago simplex* Kunth ssp. *randii* (Porter) Ringius var. *monticola* (Porter) Ringius, *comb. nov.* BASIONYM: *Solidago puberula* Nutt. var. *monticola* Porter, Bull. Torrey Bot. Club 19:129. 1892. *Solidago randii* (Porter) Britt. var. *monticola* Fern., Rhodora 10:88. 1908. SYNTYPES: U.S.A. Maine: Mt. Kineo, Moosehead Lake, 28 Aug 1871, Porter s.n. (LECTOTYPE [Ringius, Taxon 36:156. 1987.]: PH ex Herb. Porter!).

Mount Desert Is., Dog Mount, *Rand* (NY!). New Hampshire: Mt. Monadnock, *Deane* (NY!).

*Solidago simplex* Kunth ssp. *randii* (Porter) Ringius var. *racemosa* (E. Greene) Ringius, *comb. nov.* BASIONYM: *Solidago racemosa* E. Greene, *Pittonia*, 3:160. 1897. *Solidago purshii* Porter var. *racemosa* (E. Greene) Farwell, *Amer. Midl. Nat.* 11:84. 1928. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq. var. *racemosa* (E. Greene) Cronq., *Rhodora* 49:77. 1947. *Solidago spathulata* DC. ssp. *randii* (Porter) Gleason var. *racemosa* (E. Greene) Gleason, *Phytologia* 4:25. 1952. TYPE: U.S.A. Maryland: Great Falls of the Potomac River, near Broadwater, 18 Oct 1896, *D.L. Topping s.n.* (LECTOTYPE [Ringius, *Taxon* 36:156. 1987.]: ND-G 054308!; Isolectotype: NY!).

*Solidago simplex* Kunth ssp. *randii* (Porter) Ringius var. *gillmanii* (A. Gray) Ringius, *comb. nov.* BASIONYM: *Solidago humilis* Pursh var. *gillmani* A. Gray, *Proc. Amer. Acad.* 17:191. 1882. *Solidago racemosa* E. Greene var. *gillmanii* (A. Gray) Fern., *Rhodora* 10:91. 1908. *Solidago virgaurea* L. var. *gillmanii* (A. Gray) Porter, *Bull. Torrey Bot. Club* 20:290. 1893. *Solidago gillmani* (A. Gray) Steele, *Contrib. U.S. Nat. Herb.* 13:367. 1911. *Solidago purshii* Porter var. *gillmanii* (A. Gray) Farwell, *Amer. Midl. Nat.* 12:73. 1930. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq. var. *gillmani* (A. Gray) Cronq., *Rhodora* 49:77. 1947. *Solidago spathulata* DC. ssp. *randii* (Porter) Gleason var. *gillmani* (A. Gray) Gleason, *Phytologia* 4:25. 1952. SYNTYPES: "on sand hillocks on the shores of Lakes Superior and Michigan." U.S.A. Michigan: S shore of Lake Superior, 1879, *Boott s.n.* (LECTOTYPE [Ringius, *Taxon* 36:155. 1987.]: GH!); 1875, *Boott s.n.* (GH!, NY!); St. Joseph, 10 Oct 1872, *Gillman* ♂ (GH!, NY!). Ringius (1987a) discusses other possible syntypes. Orthographic variants: *gillmani*, *gilmanii*.

*Solidago simplex* Kunth ssp. *randii* (Porter) Ringius var. *ontarioensis* (Ringius) Ringius, *comb. nov.* BASIONYM: *Solidago glutinosa* Nutt. var. *ontarioensis* Ringius, *Phytologia* 62:432. 1987. TYPE: CANADA. Ontario: Algoma Dist.: Michipigoten Harbour, coastal rocks, 25 Aug 1984, *Ringius 1987* (HOLOTYPE: WAT!).

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